AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of claims in the application.

LISTING OF THE CLAIMS:

Claim 1 (Previously Presented): A semiconductor device comprising:

a base substrate;

a first conducting film formed over the base substrate and including two conductor

patterns adjacent to each other;

an etching stopper film covering each upper surface of the two conductor patterns;

a first insulation film formed over the etching stopper film and the base substrate;

a contact hole, located between the two conductor patterns, reaching the base substrate

through the first insulation film, wherein an end of the contact hole is positioned on the etching

stopper film; and

a sidewall insulation film, formed on an inner wall of the first insulation film, each side

wall of the two conductor patterns, and each side wall of the etching stopper film in the contact

hole,

wherein each of said etching stopper films is completely covered by said first insulation

film and said respective sidewall insulation film.

Claims 2 - 3 (Canceled).

Claim 4 (Original): A semiconductor device according to claim 1, further comprising:

a second insulation film having a lower dielectric constant than the etching stopper film between the first conducting film and the etching stopper film.

Claim 5 - 11 (Canceled).

Claim 12 (Previously Presented): A semiconductor devise comprising:

a semiconductor substrate;

a plurality of word lines formed on the semiconductor substrate and extended in a first direction;

a first insulation film formed on the word lines and the semiconductor substrate;

a plurality of bit lines formed on the first insulation film and extended in a second direction;

an etching stopper film covering upper surfaces of the bit lines;

a contact hole located in a part of a region between the adjacent bit lines, having ends thereof defined by the bit lines;

a second insulation film which is filling space between said plurality of bit lines where the contact hole is not formed and not exceeding over the etching stopper film;

a sidewall insulation film, formed in the contact hole, covering a side wall of the second insulation film, side walls of the bit lines and side walls of the etching stopper film; and

a capacitor having one electrode connected to the semiconductor substrate through the

contact hole.

Claim 13 (Canceled).

Claim 14 (Original): A semiconductor device according to claim 12, wherein

said one electrode of the capacitor is connected to the semiconductor substrate through a

plug buried in the first insulation film.

Claim 15 (Withdrawn): A method for fabricating a semiconductor device comprising:

a first conducting film forming step of forming on a base substrate a first conducting film

including a plurality of conductor patterns adjacent to each other, and having a upper surface

thereof covered with an etching stopper film;

a first insulation film forming step of forming a first insulation film buried between said a

plurality of conductor patterns;

a contact hole forming steps of etching the first insulation film with the etching stopper

film as a mask to form a contact hole which reaches the base substrate between the conductor

patterns and an end of which is defined by the conductor patterns; and

a sidewall insulation film forming steps of forming a sidewall insulation film on side

walls of the first conducting film and the etching stopper film in the contact hole.

Claim 16 (Withdrawn): A method for fabricating a semiconductor device according to

claim 15, wherein

in the contact hole forming step the first insulation film is etched with a photoresist

having an opening extended over said a plurality of conductor patterns and the etching stopper

film as a mask to form a plurality of the contact holes in the opening.

Claim 17 (Withdrawn): A method for fabricating a semiconductor device according to

claim 15, further comprising before the first conducting film forming step,

a device isolation film forming step of forming a device isolation film buried in the base

substrate.

Claim 18 (Withdrawn): A method for fabricating a semiconductor device according to

claim 16, further comprising before the first conducting film form step,

a device isolation film forming step of forming a device isolation film buried in the base

substrate.

Claim 19 (Withdrawn): A method for fabricating a semiconductor device comprising:

a word line forming step of forming on a semiconductor substrate a plurality of word

lines extended in a first direction of having upper surfaces thereof covered with an etching

stopper film;

a first insulation film forming step of forming a first insulation film on the etching

stopper film and the semiconductor substrate;

a contact hold forming step of forming in the first insulation film a contact hole which

reaches the semiconductor substrate between the word lines, and an end of which is positioned

on the etching stopper film on the word lines;

a sidewall insulation film forming step of forming a sidewall insulation film on side walls

of the word lines and of the etching stopper film in the contact hole; and

a bit line forming step of forming on the first insulation film a plurality of bit lines

extended in a second direction which intersects the first direction and connected to the

semiconductor substrate through the contact hole.

Claim 20 (Withdrawn): A method for fabricating a semiconductor device comprising:

a word line forming step of forming on a semiconductor substrate a plurality of word

lines extended in a first direction of having upper surfaces thereof covered with an etching

stopper film;

a first insulation film forming step of forming a first insulation film buried between the

word lines;

a contact hole forming step of etching the first insulation film with the etching stopper

film as a mask to form a contact hole which reaches the semiconductor substrate between the

word lines and an end of which is defined by the word lines;

a sidewall insulation film forming step of forming a sidewall insulation film on side walls

of the word lines and the etching stopper film in the contact hole; and

a bit line forming step of forming on the first insulation film a plurality of bit lines

extended in a second direction which intersects the first direction and connected to the

semiconductor substrate through the contact hole.

Claim 21 (Withdrawn): A method for fabricating a semiconductor device comprising:

a word line forming step of forming on a semiconductor substrate a plurality of word

lines extended in a first direction and having upper surfaces thereof covered with an etching

stopper film;

a sidewall insulation film forming step of forming sidewall insulation film having etching

characteristics substantially equal to those of the etching stopper film on side walls of the word

lines and of the etching stopper film;

a first insulation film forming step of forming a first insulation film buried between the

word lines with the sidewall insulation film formed on;

a contact hole forming step of etching the first insulation film with the etching stopper

film and the sidewall insulation film as a mask to form a contact hole which reaches the

semiconductor substrate between the word lines and an end of which is defined by the sidewall

insulation film; and

a bit line forming step of forming on the first insulation film a plurality of bit lines

extended in a second direction which intersects the first direction and connected to the

semiconductor substrate through the contact hole.

Claim 22 (Withdrawn): A method for fabricating the semiconductor device according to

claim 20, wherein

in the contact hole forming step, the first insulation film is etched with a photoresist

including an opening extended over the word lines, and the etching stopper film as a mask to

form a plurality of the contact holes in the opening.

Claim 23 (Withdrawn): A method for fabricating the semiconductor device according to

claim 21, wherein

in the contact hole forming step, the first insulation film is etched with a photoresist

including an opening extended over the word lines, and the etching stopper film as a mask to

form a plurality of the contact holes in the opening.

Claim 24 (Withdrawn): A method for fabricating the semiconductor device according to

claim 19, further comprising before the bit line forming step,

a plug forming step of forming a plug buried in the contact hole.

Claim 25 (Withdrawn): A method for fabricating the semiconductor device according to claim 20, further comprising before the bit line forming step,

a plug forming step of forming a plug buried in the contact hole.

Claim 26 (Withdrawn): A method for fabricating the semiconductor device according to claim 21, further comprising before the bit line forming step,

a plug forming step of forming a plug buried in the contact hole.

Claim 27 (Withdrawn): A method for fabricating a semiconductor device comprising:

- a word line forming step of forming on a semiconductor substrate a plurality of word lines extended in a first direction;
- a first insulation film forming step of forming a first insulation film on the semiconductor substrate with the work lines formed on;
- a bit line forming step of forming on the first insulation film a plurality of bit lines extended in a second direction which intersects the first direction and having upper surfaces thereof covered with an etching stopper film;
- a second insulation film forming step of forming a second insulation film on the etching stopper film and the first insulation film;

a contact hole forming step forming in the second insulation film a contact hole which is formed between the bit lines and an end of which is positioned on the etching stopper film on the bit lines;

a sidewall insulation film forming step of forming a sidewall insulation film on side walls of the bit lines and of the etching stopper film in the contact hole; and

a capacitor forming step of forming on the second insulation film a capacitor having one electrode connected to the semiconductor substrate through the contact hole.

Claim 28 (Withdrawn): A method for fabricating a semiconductor device comprising:

a word line forming step of forming on a semiconductor substrate a plurality of word lines extended in a first direction;

a first insulation film forming step of forming a first insulation film on the semiconductor substrate with the word lines formed on;

a bit line forming step of forming on the first insulation film a plurality of bit lines extended in a second direction which intersects the first direction and having upper surface thereof covered with an etching stopper film;

a second insulation film forming step of forming a second insulation film buried between the bit lines; a contact hole forming step of etching the second insulation film with the etching stopper film as a mask to form a contact hole which is formed on between the bit lines and an end of which is defined by the bit lines;

a sidewall insulation film forming step of forming a sidewall insulation film on side walls of the bit lines and of the etching stopper film in the contact hole; and

a capacitor forming step of forming on the second insulation film a capacitor having one electrode connected to the semiconductor substrate through the contact hole.

Claim 29 (Withdrawn): A method for fabricating a semiconductor device according to claim 27, wherein

in contact hole forming step, the second insulation film is etched with a photoresist having a pattern which alternately covers a region between the word lines, and the etching stopper film as a mask to form a plurality of the contact holes.

Claim 30 (Withdrawn): A method for fabricating a semiconductor device according to claim 28, wherein

in contact hole forming step, the second insulation film is etched with a photoresist having a pattern which alternately covers a region between the word lines, and the etching stopper film as a mask to form a plurality of the contact holes.

Claim 31 (Withdrawn): A method for fabricating a semiconductor device according to claim 27, wherein

in the contact hole forming step, the first insulation film and the second insulation film are etched to form a contact hole which reaches the semiconductor substrate and an end of which is defined by the bit lines and the word lines.

Claim 32 (Withdrawn): A method for fabricating a semiconductor device according to claim 28, wherein

in the contact hole forming step, the first insulation film and the second insulation film are etched to form a contact hole which reaches the semiconductor substrate and an end of which is defined by the bit lines and the word lines.

Claim 33 (Withdrawn): A method for fabricating a semiconductor device according to claim 27, wherein

in the bit line forming step, the etching stopper film is formed of a conductor; and in the capacitor forming step the etching stopper film is processed in the same pattern as said one electrode of the capacitor.

Claim 34 (Withdrawn): A method for fabricating a semiconductor device according to claim 28, wherein

Response Application No. 09/050,113 Attorney Docket No. 980446

in the bit line forming step, the etching stopper film is formed of a conductor; and in the capacitor forming step the etching stopper film is processed in the same pattern as said one electrode of the capacitor.

Claims 35 – 37(Canceled).